



pin to protect the component in order to divert an electrostatic discharge, the device complising at least one Zener diode connected to the contact pin to be directly polarized.

- 12. (New) Device according to claim 11, further comprising plural Zener diodes mounted in series and connected to the contact pin to be directly polarized.
- 13. (New) Device according to claim 11, wherein the at least one Zener diode comprises two regions strongly doped with opposite conductivity types, the two regions being separated by a region doped to an average level according to either of the conductivity types.
- 14. (New) Device according to claim 13, wherein the semiconducting layer of the substrate is a silicon layer, the doping of the two regions with strong doping being of the order of 10²⁰ atoms/cm³, the doping of the region with medium level doping being of the order of 10¹⁸ atoms/cm³.
- 15. (New) Device according to claim 11, wherein the said substrate is an SOI substrate.
- 16. (New) Device according to claim 12, wherein the plural the Zener diodes are laid out adjacent to each other to form a series installation, an electrical link between two adjacent Zener diodes being obtained by a metallization.
- 17. (New) Device according to claim 12, wherein the plural Zener diodes are laid out adjacent to each other to form a series installation, an electrical link between two adjacent Zener diodes being obtained by a silicide.
- 18. (New) Method for making a device for protection of an electronic component against electrostatic discharges, the protection device comprising at least one Zener diode made in a semiconducting layer of a substrate, the semiconducting layer covering an insulating layer, the method comprising:



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a step to define a zone of the diode or an active zone, in the semiconducting layer,
a step to implant a first zone in the active zone, to obtain the first zone with medium
doping according to a conductivity type chosen between a first conductivity type and a
second conductivity type opposite to the first conductivity type,

a step to implant a part of the first zone, to obtain a second strongly doped zone according to the first conductivity type, the second zone being separated from an unimplanted part of the active zone by a remaining part of the first zone, and

a step to implant the unimplanted part of the active zone to obtain a third zone with strong doping according to the said second conductivity type.

19. (New) Method for making a device for the protection of an electronic component against electrostatic discharges, the protection device comprising at least one Zener diode made in a semiconducting layer of a substrate, the semiconducting layer covering an insulating layer, the method comprising:

a step to define a zone of the diode or an active zone in the semiconducting layer,
a step to implant a first zone near a central part of the active zone, to obtain a first
medium doped zone according to a conductivity type chosen between a first conductivity type
and a second conductivity type opposite to the first conductivity type,

a step to form a grid made of a conducting material on the first zone, after formation of a thin grid oxide layer,

a step to implant a second zone of the active zone adjacent to the first zone, to obtain a second zone with strong doping according to the first conductivity type,